PATENT CLAIMS

1. Device for purifying molten glass;

1.1 with a bubble dispenser for generating gas bubbles from an external gas source as well as for introducing these gas bubbles into the molten mass;

1.2 with a pressurized-gas source arranged prior to the bubble dispenser;

1.3 the bubble dispenser comprising a porous body with open pores;

1.4 the pores of the porous body 2 having an average diameter of less than 0.5 mm.

2. Device according to claim 1, characterized by the fact that the pores of the porous body 2 have an average diameter of less than 100 μm.

3. Device according to claim 1 or 2, characterized by the fact that the porous body 2 is disk- or plug-shaped.

4. Device according to claim 1 or 2, characterized through the following features:

4.1 the porous body (2) is sleeve-shaped;

4.2 the porous body (2) can be installed in a purification vessel (1) such that it protrudes into the molten mass;

4.3 the porous body (2) connectable with its one end to the pressure source, while its other end is closed.

5. Device according to one of the claims 1 through 4, characterized by the fact that the porous body (2) consists of porous material.

6. Device according to one of the claims 1 through 4, characterized by the fact that the porous body (2) displays a lattice, mesh, grid, or grating structure.

7. Device according to one of the claims 1 through 6, characterized by the fact that the porous body (2) consists of ceramic material.

8. Device according to claim 7, characterized by the fact that the porous body (2) consists of one of the following materials:
silicon carbide;
aluminum oxide;
silicon dioxide;
aluminum silicate.

9. Device according to one of the claims 1 through 6, characterized by the fact that the porous body (2) consists of a metal.

10. Device according to claim 9, characterized by the fact that the porous body (2) consists of one of the following materials:
tungsten;
molybdenum;
platinum;
iridium;
or an alloy of these metals.

11. Device according to claim 9 or 10, characterized by the fact that the porous body (2) can be electrically heated.

12. Arrangement for purifying molten glass;
12.1 with a purification vessel;
12.2 with a bubble dispenser for generating gas bubbles from an external pressurized-gas source as well as for introducing the gas bubbles into the molten mass;
12.3 the bubble dispenser comprising a porous body (2) according to one of the claims 1 through 11.

13. Device and method for purifying molten gas according to claims 1 through 11, characterized by the fact that used as the bubbling gas is oxygen.

14. Device and method for purifying molten gas according to claims 1 through 11, characterized by the fact that used as the bubbling gas is helium.